XNBP BANDPASS SERIES

INSTALLATION/OWNERS MANUAL

Bandpass Enclosures

illumiNITE™

Dual

Getting Started

Thanks for choosing Dual. This manual is designed to provide information for the purchaser of Dual car audio products. Dual has attempted to make sure all the information in this manual is current. But, this information is subject to change without notice.

Safety

⚠ CAUTION This symbol with "CAUTION" is intended to alert the user to the presence of important instructions. Failure to heed the instructions can result in injury or unit damage.

⚠ CAUTION To prevent injury and damage to the unit, please read and follow the instructions in this manual.

⚠ CAUTION If you feel unsure about installing this system yourself, have it installed by a qualified audio technician.

⚠ CAUTION Before installation, disconnect the battery negative (-) terminal to prevent damage to the unit, fire and/or possible injury.

⚠ CAUTION Do not connect Amplifier or any audio source to illumination inputs. Inputs are designed for 12 volt power source only.

⚠ CAUTION illuminite inputs are designed for 12 volt DC power source only. Do NOT connect your illuminite product directly to your battery permanently, as it will cause your battery to discharge. Please use switched 12 volt source.

Installation

Please note: This manual covers multiple models. Parts of the following instructions may not apply to your installation.

⚠ **CAUTION** The installation instructions included here are basic. If you feel unsure about personally installing the speaker system. Dual recommends that you seek installation by a qualified auto sound technician.

Before installation, please follow the following rules:

1. Be sure to carefully read and understand the instructions before attempting to install the product.
2. For safety, disconnect the negative lead from the battery prior to beginning the installation.
3. For easier assembly, we recommend that if additional wiring is required, that you run all wires prior to mounting your speaker in place.
4. Use the highest quality connectors for a reliable installation and to minimize signal or power loss.
5. Use caution before you drill or cut! Be careful not to cut or drill into gas tanks, fuel lines, brake or hydraulic lines, vacuum lines or electrical wiring when working on any vehicle.
6. Never run speaker wires underneath your vehicle. Running speaker wires inside the vehicle provides the best protection from exhaust heat and environmental elements.
7. Avoid running wires over, near, or through sharp edged surfaces. We suggest you also use rubber grommets to protect any wires routed through metal, especially the firewall.
8. When running the speaker cable from the amplifier, avoid running it near sources of high current (i.e. wiring harnesses, battery cables).
9. Amp connection: The positive (+) speaker output from the bass amp connects to the positive (+) terminal, and the negative output (-) connects to the negative (-) input terminal on the input cup located on the rear of the product. DO NOT CONNECT AMP OR ANY AUDIO SOURCE TO ILLUMINATION INPUTS AS DAMAGE TO LIGHTING ELEMENTS WILL OCCUR.
10. Illumination connection: The positive (+) output from your 12 volt system connects to the positive (+) input, and the negative (ground) connects to the negative input on the input cup located on the rear of the product. Improper 12 volt polarity will not cause damage to elements, but lighting elements will not illuminate.

Enclosure Guidelines

We at Dual have provided placement recommendations and installation tips for your enclosures. These are a result of many hours of development and experimentation. These examples are provided to you as a guide line. Please feel free to experiment yourself as you may find that other placements can provide you with superior results. We also recommend that you will have the best results by consulting a professional installer, but If choosing to do your own installation, please note the following:

- Make sure all moving parts and factory electrical wires are out of your way and will not interfere after installation.
- Leave a little slack in the wire to prevent pulling or stretching, this is even more important if the wires will be run under or through the factory interior.
- Use tie downs and wire clamps to prevent the wires from getting caught or shorted.
- We do not recommend placing or installing band pass enclosures where they might be subjected to moisture.
- Correct subwoofer polarity must be observed. The polarity positive side is marked by a (+) sign. Subwoofers out-of-phase will have little bass output.
- Correct 12 volt polarity for lighting elements must be observed. Failure to maintain correct polarity will not provide the needed DC power needed to illuminate the lighting elements. Illumination inputs are 12 volt only. Do not connect an amp or any audio output source to the lighting (Illuminite) inputs. Doing so will cause permanent damage to the lighting elements.
- Speaker wire should be isolated from the vehicle's electrical system to avoid noise being picked up by the amplifiers.
- Speaker wire should be large enough to carry the full power of your amplifier. 14 gauge or larger sizes are adequate.
- Be sure to give your ears consideration. Listening to loud music for extended periods can possibly damage your hearing!

Illuminite™ Lighting Hook-Up Recommendations

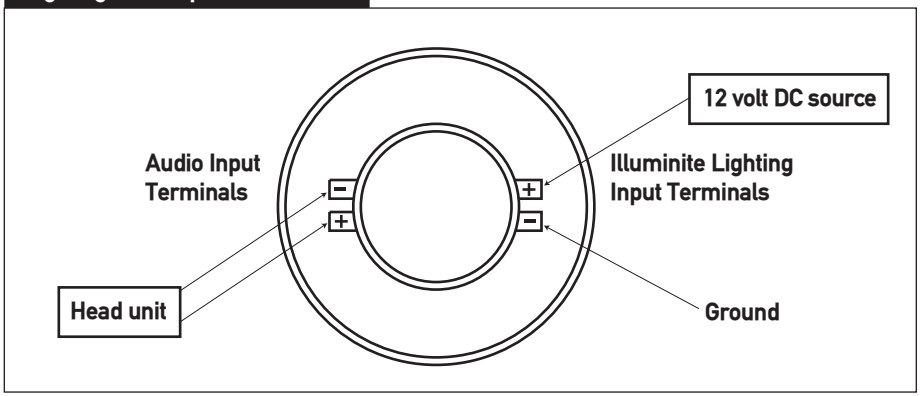
The illuminite lighting elements of your XiNBP series products provide you with a unique custom touch to your vehicle. Dual 's patent pending illuminite bulb system and control circuitry provides an extraordinary Blue-Hue illumination which allows great creative opportunities for the beginner and seasoned custom installer alike. The interior of your vehicle will never sound or look ordinary again. Let your imagination take you there.

The lighting features of all illuminite products require a 12 volt power source to operate. The speaker has two distinct sets of input terminals. The first is labeled audio input terminals and the second is labeled illuminite lighting inputs. The inputs are clearly marked with a label positioned directly above the terminal housing. The polarity (+ and -) indicators for each set of inputs also appear on these labels.

1. Do not connect Amplifier or any audio source to illuminite lighting inputs. Inputs are designed for switched 12 volt DC power source only. Do not connect your illuminite product directly to your battery permanently, as if will cause your battery to discharge. Please use a switched 12 volt source.
2. See fig. 1a, (illustrates wiring diagram) be sure to maintain polarity. Be sure to connect to a constant switched 12 volt source. Correct connection would be the positive (+) 12 volt wire to the Positive (+) illuminite lighting input terminal and connect the negative (-) illuminite lighting input terminal to a good chassis ground.

Fig 1a

Lighting Hook-Up From Rear



Notice: The XiNBP series illumination elements are not removable. There are no serviceable parts inside or attached to the speaker assembly. The XiNBP series products are sensitive electronic devices. Removal or tampering with any part or portion of the speaker and/or its assemblies will damage the product and void the limited warranty.

General Band Pass (BP) Features

- Input Terminal Cup - The input terminal cups provide a quick and easy connection from your bass amplifier to your Band Pass enclosure, and 12 volt inputs to connect the Illuminite lighting elements. The speaker terminal inputs will also take a standard banana plug if you desire to use that connection option. Note: Illumination inputs are 12 volt only. Do not connect an amp or any audio output source to the lighting (Illuminite) inputs. Doing so will cause permanent damage to the lighting elements.
- Computer tuned acoustic chamber - Dual's enclosures utilize a specialized tuned-port computer aided design to increase the output efficiency. The enclosure needs to breath so for the best performance, don't block the airflow from the ports.
- The low Q optimized woofers can really get down there.
- Curved Plexiglas Viewing Window - Look in and see for yourself how your new Bandpass glows under the NEW Dual Illuminite blue!
- Super durable carpeted enclosures.
- Nailed and glued construction and bracing is added to eliminate enclosure movement caused by high pressure levels. You'll hear the music without unwanted resonances.

Limited One-Year Warranty

This warranty gives you specific legal rights. You may also have other rights which vary from state to state.

Namsung America Inc. warrants this product to the original purchaser to be free from defects in material and workmanship, under normal conditions, for a period of one year from the date of the original purchase.

Namsung America agrees, at our option, during the warranty period, to repair any defect in material or workmanship or to furnish an equal new or renewed product in exchange without charges, subject to verification of the defect or malfunction and proof of the date of purchase.

During the one-year warranty period: from the date of purchase, your product will be replaced with a new, renewed, or comparable product (whichever is deemed necessary) if it becomes defective or inoperative. This is done without charge to you. Replacement products are warranted for the balance of the original warranty period.

Who is covered? This warranty is extended to the original retail purchaser for products purchased and used in the U.S.A., in the 48 contiguous states ONLY.

What is covered? This warranty covers all defects in material and workmanship in this product. The following are not covered: installation/removal costs, damage resulting from accident, misuse, abuse, neglect, product modification, improper installation, incorrect line voltage, unauthorized repair or failure to follow instructions supplied with the product, or damage occurring during return shipment of the product.

What to do? If the product requires warranty service, you must prepay the initial shipping charges. DUAL will pay the return shipping charges if the product is returned to an address within the USA.

Namsung America Inc.
Attn: Returns Center
21318 64th Ave. South
Kent, WA 98032 U.S.A.
Toll Free: 1-866-626-7863

Exclusion of Certain Damages: This warranty is exclusive and in lieu of any and all other warranties, expressed or implied, including without limitation the implied warranties of merchantability and fitness for a particular purpose and any obligation, liability, right, claim or remedy in contract or tort, whether or not arising from the company's negligence, actual or imputed. No person or representative is authorized to assume for the company any other liability in connection with the sale of this product. In no event shall the company be liable for indirect, incidental or consequential damages.

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